

GT2

File: T. Bachman - Lehrer
Landfill Outagamie Co.

OFFICE MEMO

4400

ATTN: Bob Glebs

FROM: Terrence Gardon
SUBJECT: 20th Street Leachate Seep, City of Kaukauna

On July 15, 1977 Soil Testing Services submitted a report on the leachate seep north of the Lehrer landfill in the City of Kaukauna. The report recommended that additional study be done in the area. On December 5, 1977 Soil Testing submitted the final report on the seep to our office. Following is a summary of the conclusions drawn and the District recommendations concerning the seep.

Ground water flow is in a northeast direction away from Lehrer landfill and toward the leachate seep.

An uncontrolled fill exists beneath the 20th Street area.

Water quality decreases with increasing distance from the Lehrer landfill.

The seep does not originate at the low point of the ravine but down slope from a culvert beneath 20th Street.

If leachate were escaping from the Lehrer landfill the flow would be channelized through the uncontrolled fill. Based upon STS's uniform flow data leachate could not have travelled through the fill material during this time period. (3 years)

In conclusion the evidence indicates that the source of the seep is probably a result of the infiltration of surface water into the uncontrolled fill beneath 20th Street. If leachate were escaping from the Lehrer landfill water quality near the site would show greater contamination. The report seems to indicate that a channelized flow of leachate from Lehrer landfill through the uncontrolled fill is possible although the water quality data does not reflect this. If this channelized theory were the case one would expect the water quality of the seep to be similar to the water quality near the Lehrer fill.

Since the surface drainage off of Lehrer landfill has been diverted to the east toward Kankapot Creek and the depression at the head of the culvert backfilled, the District recommends that no action be taken on the seep until late spring 1978. If the leachate seep still persists at this time a cutoff trench should be dug along the north cells of the Lehrer landfill to determine once and for all if channelization of the leachate through the 20th Street fill is occurring. If channelization is occurring the trench should then be backfilled with clay to create a clay cutoff wall. If channelization is not occurring steps should be taken to prevent the infiltration of surface water into the 20th Street

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fill. This may eventually lead to plugging the culvert or removing it altogether. The responsibility for having this work done would have to be decided between the City of Kaukauna and James Lehrer. The District feels that the installation of additional wells or soil borings in the area would not conclusively determine the source of the leachate seep as the cutoff trench would.

Terry Gardon
Terry Gardon

TG:sh

00746

SOIL TESTING SERVICES OF WISCONSIN, INC.
CONSULTING SOIL & FOUNDATION ENGINEERS
540 LAMBEAU ST., GREEN BAY, WIS. 54303

Lehrer
to Buchanon

PHONE: (414) 494-9656

JOHN P. GNAEDINGER, P.E.
CLYDE N. BAKER, JR., P.E.
WILLIAM M. PERPICH, P.E.
WILLIAM C. KWASNY, P.E.

JAN 28 1976

1573 Mich. Dist.

Date January 26, 1976

Department of Natural Resources

812 South Fisk Street

Green Bay, Wisconsin 54304

STS Job No. 6148 A

Structure Lehrer Landfill

Location Kaukauna, Wisconsin

Attention: Mr. Gary Kulibert

Gentlemen:

☒ herewith

We are sending 1 sets of prints of

☐ under separate cover

- ☒ Boring Logs and Location Diagram
- ☐ Laboratory Compaction Data
- ☐ Field Compaction Control Data
- ☐ Classification Test Data
- ☐ Consolidation Test Data
- ☐ Triaxial Compression Test Data
- ☐ Sealed Jar Samples
- ☐ Rock Core Samples
- ☐ Caisson Reports
- ☐ Concrete Report #
- ☐

for the above job.

PRELIMINARY

Remarks cc: Department of Natural Resources

P. O. Box 450

Madison, Wisconsin 53701

Attn: Mr. Bob Glebs

Yours truly,

SOIL TESTING SERVICES OF WISCONSIN, INC.

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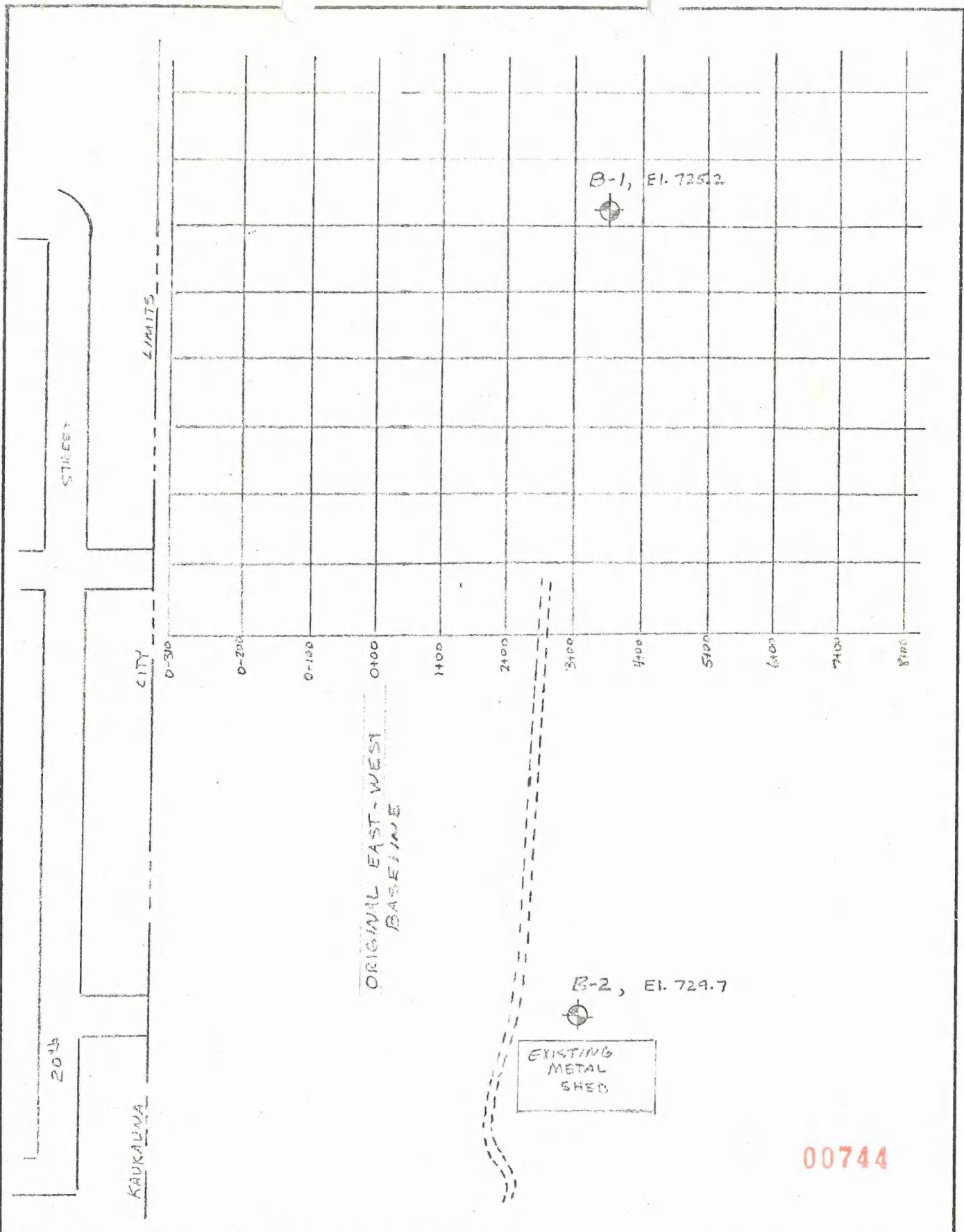
Timothy K. Dahlstrand

Registered Professional Engineer, Wisconsin

FOUNDATION BORINGS AND TESTING

INSPECTION

ENGINEERING ANALYSES AND REPORTS



SOIL BORING LOCATION DIAGRAM
 LEHRER LANDFILL SITE
 TOWN OF BUCHANAN



**SOIL TESTING SERVICES
 OF WISCONSIN, INC.**

540 LAMBEAU ST. GREEN BAY, WISCONSIN 54303

TRD	7-15-74	6148
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← DAKRIDGE AVE.

WALL

B-3B
B-3A
B-3

BORING TO 100' OR ROCK
w/well @ 100'; ALSO
WITH WELL @ 60'

EXSTG. B-1
TO 77'; OBS.
WELL @ 61'

B-1A

WELL @ 40'

FILLED

FILLED

B-4 B-4A

BORING TO 50' w/well,
ALSO WELL @ 30'

BORING TO 75' w/well;
ALSO WITH WELL @ 30'

BORING TO 100' OR ROCK
w/well @ 100'; ALSO
WITH WELL @ 60'

B-5B
B-5A
B-5

B-6B
B-6A
B-6

CTH CE

R.O.W.

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LEHRER LANDFILL
KAUKAUNA, WISCONSIN.



SOIL TESTING SERVICES
OF WISCONSIN, INC.

540 LAMBEAU ST. GREEN BAY, WISCONSIN 54303

WCK 9-10-75 1" = 200'

LOG OF BORING NO. 1										
OWNER Town of Burlington					ARCHITECT-ENGINEER Cotton Land Surveying					
SITE					PROJECT NAME Luther Landfill Site					
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	UNSAT. W.T. REC'D	DESCRIPTION OF MATERIAL	UNIT W.T. LBS./FT. 3	UNCONFIRMED COMPRESSIVE STRENGTH TONS/FT. 2				
						PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %		
				SURFACE ELEVATION 725.2		STANDARD "N" PENETRATION (BLOWS/FT.)				
						10	20	30	40	50
1	ST			Silty clay, trace sand, gravel clinders, roots-red brown to black-(CL-Fill)						
2	ST									
3	ST			Silty clay, trace sand, gravel with occasional light brown silt seams-red brown-hard-(CL)						
4	ST									
5	ST									
6	ST									
7	ST			Silty clay, trace sand, gravel trace decayed roots from 20' to 22' and 1/2" to 1" peat pockets-dark brown to brown- tough to hard-(CL-CH)						
8	ST									
9	ST									
10	ST									
11	ST									
12	ST			Varved red silty clay(CH) and gray brown silty clay(CL-CH) in 1/8" to 1/4" layers-very tough to tough-(CH & CL-CH)						
13	ST									
14	ST									
15	ST									
16	ST									
17	ST									
18	ST			Silty clay, trace sand, gravel with a few irregular red clay seams-gray brown-tough to very tough-(CL-CH)						
End of Boring					*Calibrated Penetrometer					
Note: 1. Well point installed AB as per enclosed drawing with tip at 61.3' below ground surface 2. 2' of 4" casing used 3. Well point protector pipe installed 4. Elevation of top of PVC pipe-726.0										

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LOG OF BORING NO.

OWNER

ARCHITECT-ENGINEER
Harris and Associates

PROJECT NAME
Proposed Lehrer Landfill

SITE	Highway 55 and CTH EE Kaukauna, Wisconsin
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PROJECT NAME
Proposed Lehrer Landfill

Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.²					
						1 PLASTIC LIMIT % X-----	2 WATER CONTENT % -----●-----	3 LIQUID LIMIT % -----△-----	4	5	
				SURFACE ELEVATION ↴		STANDARD "N" PENETRATION (BLOWS/FT.)					
						10	20	30	40	50	
5				No soil sampling for installing well point at 40 feet							
10		PA									
15											
20											
25		PA									
30											
35											
40											
				End of Boring							

00741

[illegible]

W.L.	None to 40' AB
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W.L.	B.C.R.	A.C.R.
------	--------	--------

W.L.	Bailed to 40.0' from top
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of PVC. Apparently dry

to 40.0'

SOIL TESTING SERVICES OF WIS., INC.

540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED 12-23-75

BORING COMPLETED 12-23-75

RIG 22	FOREMAN BS
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DRAWN	KO	APPROVED	TKD
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JOB # 6148 A SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 7				
OWNER County of Buchanan		ARCHITECT-ENGINEER L. J. (JACK) LINDSAY, INC.		
SITE		PROJECT NAME Lebanon Landfill Site		
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE SAMPLING METHOD RECOVERY	DESCRIPTION OF MATERIAL	UNCONFINED COMPRESSIVE STRENGTH (TONS/FT.²) PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT % STANDARD "N" PENETRATION (BLOWS/FT.)
0			SURFACE ELEVATION 729.7	
1	1	ST	Silty clay, trace to some sand, red brown-hard-(CL)	
2	2	ST	Silty fine sand, trace to some clay lumps, trace gravel-brown (SM-ST)	
3	3	ST	Silty, sandy clay, trace gravel-red brown-hard-(CL-SC)	
4	4	ST	Silty clay, trace sand, gravel with light gray brown silt seams-red brown-hard-(CL)	
6	6	ST		
7	7	ST	Silty clay, trace sand, gravel with trace decayed roots beginning at 25' to about 38.5'-3/4" peat layer at 36.8'-brown to dark brown-tough to hard-(CL-CH)	
8	8	ST		
9	9	ST		
10	10	ST		
11	11	ST		
12	12	ST		
13	13	ST		
14	14	ST	Varved red silty clay(CH) and gray brown silty clay-(CL-CH) in 1/8" to 1/2" layers-very tough to hard-(CH & CL-CH)	
15	15	ST		
16	16	ST		
17	17	ST		
18	18	ST		
19	19	SS	Clayey, sandy gravel-brown-saturated-very dense-boulders from 79' to 81'-(GP-GC)	
End of Boring				*Calibrated Penetrometer
Note: 1. Well point installed after boring with tip at 57.0' 2. 2' of 4" Casing Used 3. Well point protector pipe installed 4. Elevation of top of PVC pipe - 731.9				

WATER LEVEL OBSERVATIONS			SOIL TESTING SERVICES OF WIS., INC. ROUTE 10, ELKHART, INDIANA 46516 GRITH BAY, WISCONSIN 508-258-2100	BORING NO. 10 7-10-74	
WL	W.G. OR W.O.			BORING CORRECTED 7-10-74	
WL	P.C.R.	A.C.R.		DESIGNED BY	FOR MAN BY
WL				DRAWN BY	APPROVED BY

the stratification lines represent the approximate boundary between soil types, and the transition may be gradual.

LOG OF BORING NO. 3

OWNER				ARCHITECT-ENGINEER			
SITE Highway 55 and CTH EE Kaukauna, Wisconsin				PROJECT NAME Proposed Lehrer Landfill			
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. 2
							1 2 3 4 5 PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT % X - - - - - STANDARD "N" PENETRATION (BLOWS/FT.)
×					SURFACE ELEVATION 7		
	1	ST			Reddish brown to brown silty clay with trace to some roots, trace gravel-very tough to hard-(CL)		
	2	ST					
	3	ST					
	4	ST					
10	5	ST			Reddish brown silty clay with trace gravel-tough to hard-(CL)		
	6	ST					
15					Reddish brown silty clay with trace to some organics-tough to very tough-(CL)		
	7	ST					
20							
	8	ST					
25							
	9	ST					
30							
	10	ST					
35							
	11	ST					
40							
	12	ST					
45					Varved reddish brown to gray brown clay and silt-tough to very tough-(CL & ML)		
	13	ST					
50							
	14	ST					
55							
	15	ST					
60							
	16	ST					
65							
	17	ST					
70							
	18	ST					
75					Gray to gray brown silty clay with trace gravel-tough-(CL)		
	19	ST					
80							
	20	ST					
85							
	21	ST					
88							
					Continued		

00739

WATER LEVEL OBSERVATIONS		
W.L.	26.0' WD	
W.L.	B.C.R.	A.C.R.
W.L.	Bailed to 96.0' from top of PVC	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-10-75
BORING COMPLETED	12-10-75
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET 1 of 2

The stratification lines represent the approximate boundary
between soil types and the transition may be gradual.

LOG OF BORING NO. 3						
OWNER			ARCHITECT-ENGINEER Harris and Associates			
SITE Highway 55 and CTH EE Kaukauna, Wisconsin			PROJECT NAME Proposed Lehrer Landfill			
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.² 1 2 3 4 5 PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT % X - - - - - STANDARD "N" PENETRATION (BLOWS/FT.) 10 20 30 40 50
				SURFACE ELEVATION →		
				Continued		
88						
90	22	ST	II	Varved gray to gray brown clay and silt with trace to some gravel-tough to very tough-(CL & ML)		
95	23	ST	II			
100	24	ST	III	Gray gravel and clay-(GC) Decomposed limestone rock		
105	Run DB					
107	#1 NX			limestone rock Rec.= % RQD= %		
				End of Boring	*Calibrated Penetrometer	
				Water loss 100% at depth 106.5' to 107.0' Obstructions from depth 100.0' to 104.0' Observation well installed @ 101.0'		
						00738

WATER LEVEL OBSERVATIONS	
W.L.	
W.L.	B.C.R. A.C.R.
W.L.	Cave in @ 101.0' AB

SOIL TESTING SERVICES

OF WIS., INC.

540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED 12-10-75	
BORING COMPLETED 12-10-75	
RIG 22	FOREMAN BS
DRAWN K0	APPROVED TKD
JOB # 6148 A	SHEET 2 of 2

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 3-A

OWNER	ARCHITECT-ENGINEER
SITE Highway 55 and CTH EE Kaukauna, Wisconsin	PROJECT NAME Harris and Associates Proposed Lehrer Landfill

DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. 1				
							1	2	3	4	5
							PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %		
							X		△		
							STANDARD "N" PENETRATION (BLOWS/FT.)				
							10	20	30	40	50
5											
10											
15											
20					No soil sampling-installed well point at 70.0 feet						
25											
30											
35											
40											
45											
50											
55											
60											
65											
70					End of Boring						

00787

WATER LEVEL OBSERVATIONS		SOIL TESTING SERVICES OF WIS., INC. 540 LAMBEAU STREET GREEN BAY, WIS. 54303		BORING STARTED	12-15-75
W.L.	23' WD			BORING COMPLETED	12-15-75
W.L.	B.C.R.			RIG 22	FOREMAN BS
W.L.	Bailed to 69.0' from top of PVC			DRAWN KO	APPROVED TKD
				JOB # 6148 A	SHEET
The stratification lines represent the approximate boundary between soil types and the transition may be gradual.					

[illegible]

BBS 41075

LOG OF BORING NO.						
OWNER			ARCHITECT-ENGINEER			
SITE Highway 55 and CTH EE Kaukauna, Wisconsin			PROJECT NAME Proposed Lehrer Landfill			
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT.²
				SURFACE ELEVATION →		1 2 3 4 5 PLASTIC LIMIT % WATER CONTENT % LIQUID LIMIT % X-----●-----△ STANDARD "N" PENETRATION (BLOWS/FT.) 10 20 30 * 40 50
	1	ST		Red brown sandy clayey topsoil-with trace gravel and roots-very tough-(SC)		
	2	ST		Red brown silty clay-trace to some sand and gravel-stiff to very tough-(CL)		
	3	ST				
	4	ST				
10	5	ST		Red brown silty clay with trace to some gravel-tough to very tough-(CL)		
	6	ST				
	7	ST				
20						
	8	ST		Red brown silty clay with trace to some gravel,cobbles, and boulders-tough to very tough-(GC)		
30						
	9	ST				
	10	ST				
40						
	11	ST				
	12	ST				
50						
52.0	13	ST				
				End of Boring	132	*Calibrated Penetrometer
				Boulders or obstructions from 18' to 22'		
				Boulders likely from 18' to end of boring		
				Observation well installed		

00735

WATER LEVEL OBSERVATIONS			SOIL TESTING SERVICES OF WIS., INC. 540 LAMBEAU STREET GREEN BAY, WIS. 54303	BORING STARTED 12-31-75	
W.L.				BORING COMPLETED 1-2-76	
W.L.	B.C.R.	A.C.R.		RIG 22	FOREMAN BS
W.L.	0.5' AB			DRAWN KO	APPROVED TKD
Bailed to 50.0' from top of PVC				JOB # 6148 A	SHEET

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 4-A											
OWNER					ARCHITECT-ENGINEER Harris and Associates						
SITE Highway 55 and CTH EE Kaukauna, Wisconsin					PROJECT NAME Proposed Lehrer Landfill						
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST.	RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. ²				
							1	2	3	4	5
						<div style="display: flex; justify-content: space-between; align-items: center;"> <div>PLASTIC LIMIT %</div> <div>WATER CONTENT %</div> <div>LIQUID LIMIT %</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>X-----</div> <div>-----●-----</div> <div>-----△-----</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>STANDARD "N" PENETRATION (BLOWS/FT.)</div> <div>⊗</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>10</div> <div>20</div> <div>30</div> <div>40</div> <div>50</div> </div>					
X					SURFACE ELEVATION ↴						
5					No samples - well point installed at 30.0 feet						
10											
15											
20											
25											
30											
					End of Boring				00734		

WATER LEVEL OBSERVATIONS			SOIL TESTING SERVICES OF WIS., INC. 540 LAMBEAU STREET GREEN BAY, WIS. 54303	BORING STARTED	
W.L.				BORING COMPLETED	
W.L.	B.C.R.	A.C.R.		RIG	FOREMAN
W.L.	0.5' AB			DRAWN	APPROVED
	Bailed to 31.0'			JOB # 6148 A	SHEET
			The stratification lines represent the approximate boundary between soil types and the transition may be gradual.		

LOG OF BORING NO. 5

OWNER				ARCHITECT-ENGINEER					
SITE				PROJECT NAME					
Highway 55 and CTH EE Kaukauna, Wisconsin				Proposed Lehrer Landfill					
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. 2			
						1 PLASTIC LIMIT %	2 WATER CONTENT %	3 STANDARD "N" PENETRATION (BLOWS/FT.)	4 LIQUID LIMIT %
				SURFACE ELEVATION 7					
1	1	ST		Brown sandy topsoil-hard-(SC)					
2	2	ST		Brown silty clay with trace to some sand and gravel-very tough to hard-(CL)					
3	3	ST							
4	4	ST		Red brown silty clay with trace gravel-tough-(CL)	112				
5	5	ST		Brown clayey silt with trace sand and gravel-hard-(ML)	113				
6	6	ST							
7	7	ST		Brown silty clay with trace gravel-soft to tough-(CL-CH)	118				
8	8	ST							
9	9	ST		Red brown silty clay with trace gravel and woody fibers-very tough to hard-(CL)	106				
10	10	ST							
11	11	ST							
12	12	ST		Red brown silty clay with occasional silt seams-hard-(CL)					
13	13	ST							
14	14	ST							
15	15	ST							
16	16	ST		Varved red brown clay and gray brown silt 1/4" to 1.0" in thickness-tough to very tough-(CL & ML)					
17	17	ST							
18	18	ST							
19	19	ST							
20	20	ST							
21	21	ST		Gray brown silty clay with trace to some gravel and occasional seams of red clay-tough-(CL)					
22	22	ST							
				End of Boring Observation well installed at 90.0'					

WATER LEVEL OBSERVATIONS	
W.L.	
W.L.	B.C.R. A.C.R.
W.L.	

SOIL TESTING SERVICES
OF WIS., INC.
540 LAMBEAU STREET
GREEN BAY, WIS. 54303

BORING STARTED	12-18-75
BORING COMPLETED	12-22-75
RIG 22	FOREMAN BS
DRAWN KO	APPROVED TKD
JOB # 6148 A	SHEET 1 of 1

The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

LOG OF BORING NO. 5-A

OWNER				ARCHITECT-ENGINEER Harris and Associates							
SITE Highway 55 and CTH EE Kaukauna, Wisconsin				PROJECT NAME Proposed Lehrer Landfill							
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. 2					
						1 PLASTIC LIMIT % X	2 WATER CONTENT % ●	3 LIQUID LIMIT % △	4	5	
				SURFACE ELEVATION 7		10	20	30	40	50	
5				No soil sampling well point installed at 70.0 feet							
10		PA									
15											
20											
25											
30											
35											
40		FT									
45											
50											
55											
60											
65											
70					End of Boring Obstruction at 66.0 feet						
WATER LEVEL OBSERVATIONS				SOIL TESTING SERVICES OF WIS., INC. 540 LAMBEAU STREET GREEN BAY, WIS. 54303		BORING STARTED		12-16-75			
W.L.	19.0' WD		BORING COMPLETED			12-18-75					
W.L.	B.C.R.		RIG 22			FOREMAN BS					
W.L.	63.1' after bailing		DRAWN KO			APPROVED TKD					
						JOB # 6148 A		SHEET			
				The stratification lines represent the approximate boundary between soil types and the transition may be gradual.							

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LOG OF BORING NO. _____										
OWNER _____					ARCHITECT-ENGINEER Harris and Associates					
SITE Highway 55 and CTH EE Kaukauna, Wisconsin					PROJECT NAME Proposed Lehrer Landfill					
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. 2				
						1	2	3	4	5
						PLASTIC LIMIT %	WATER CONTENT %	LIQUID LIMIT %		
						X-----	-----●-----	-----△-----		
						STANDARD "N"	PENETRATION (BLOWS/FT.)			
						10	20	30	40	50
X				SURFACE ELEVATION ↓						
5				No soil sampling-well point installed at 50.0 feet						
10										
15										
20										
25										
30										
35										
40										
45										
50										
				End of Boring						

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WATER LEVEL OBSERVATIONS				SOIL TESTING SERVICES OF WIS., INC. 540 LAMBEAU STREET GREEN BAY, WIS. 54303		BORING STARTED	
W.L.	49.8' AB					BORING COMPLETED	
W.L.	B.C.R.	A.C.R.				RIG 22	FOREMAN
W.L.	Bailed to 49.8' from top of PVC					DRAWN K0	APPROVED TKD
						JOB # 6148 A	SHEET
				The stratification lines represent the approximate boundary between soil types and the transition may be gradual.			

LOG OF BORING NO. 6

OWNER				ARCHITECT-ENGINEER						
SITE				PROJECT NAME						
Highway 55 and CTH EE Kaukauna, Wisconsin				Proposed Lehrer Landfill						
DEPTH ELEVATION	SAMPLE NO.	TYPE SAMPLE	SAMPLE DIST. RECOVERY	DESCRIPTION OF MATERIAL	UNIT DRY WT. LBS./FT. 3	UNCONFINED COMPRESSIVE STRENGTH TONS/FT. 2				
						1	2	3	4	5
						PLASTIC LIMIT %	WATER CONTENT %		LIQUID LIMIT %	
						X				△
						STANDARD "N" PENETRATION (BLOWS/FT.)				
						10	20	30	40	50
5	1	ST		Red brown to brown silty clay with trace to some sand and gravel and with trace to some roots,woody fibers and black peaty pockets-possibly fill material-soft to very tough-(CL)						
	2	ST								
	3	ST								
	4	ST								
10	5	ST								
	6	ST								
15	7	ST		Irregularly varved red brown clay and gray brown silt with trace gravel-tough-(CL-ML)						
20	8	ST								
25	9	ST								
30	10	ST		Brown silty clay with trace to some gravel in the form of limestone pieces-trace to some cobbles and boulders-tough-(CL)						
35	11	ST								
40	12	SD								
45	13	SS								
50	14	SS		Brown silty clay with trace to some sand,gravel, cobbles and boulders-hard-(GC)						
55	15	SS								
60	16	SS		Weathered broken limestone						
65.5		RB								
End of Boring 61' of NX casing					*Calibrated Penetrometer					
Boulders or obstructions from 43' to end of boring Observation well installed at 64.5'										
					00730					

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ABS 41075

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PPS 41075